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**BANGALORE UNIVERSITY**
**DEPARTMENT OF CIVIL ENGINEERING**

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JNANA BHARATHI
BANGALORE - 560 056

**BUB/CTE/2015-16/** **DATE: 01-06-2015**

## 1. TEST REPORT ON CEMENT CONCRETE CUBES:

**Sub**: Testing of Concrete Cubes for 28 days Compressive Strength.
{Project*: Remodelling of SWD BP 026 (BY03) from BB Nagara, Kodigehalli to H 200 Primary Drain near Nagashettihalli Main Road in Ward No.08 in Yelahanka Zone}

**Ref.**: Letter No. Testing/BUB/2015-16, dated 30-05-2015
Sample supplied to lab by: Sri.G.L.Yadugiri, Contractor, Bangalore.
Report required for: Assistant Executive Engineer, SWD, Yalahanka Zone,BBMP, Bangalore.

**RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE CUBE SPECIMENS**

Dimensions of Specimen : 150 X 150 X 150mm
Grade of Concrete* : $M_{35}$
Location* : Deck Slab Concrete

**TABLE 1.1:**

| Sl No | Location/ Identification* | Date of Casting* | Date of Testing | Age in Days | C/S Area in $mm^2$ | Maximum Load in K.N | Compressive Strength ($N/mm^2$) | Avg. Value |
|---|---|---|---|---|---|---|---|---|
| 1 | 001 | 02-05-15 | 30-05-15 | 28 | 22500 | 810 | 36.00 | **36.22** |
| | 002 | " | " | " | " | 825 | 36.66 | |
| | 003 | " | " | " | " | 810 | 36.00 | |
| 2 | 004 | " | " | " | " | 820 | 36.44 | **36.88** |
| | 005 | " | " | " | " | 840 | 37.33 | |
| | 006 | " | " | " | " | 830 | 36.88 | |
| 3 | 007 | " | " | " | " | 835 | 37.11 | **37.33** |
| | 008 | " | " | " | " | 850 | 37.77 | |
| | 009 | " | " | " | " | 835 | 37.11 | |
| 4 | 010 | " | " | " | " | 825 | 36.66 | **36.51** |
| | 011 | " | " | " | " | 810 | 36.00 | |
| | 012 | " | " | " | " | 830 | 36.88 | |
| 5 | 013 | " | " | " | " | 830 | 36.88 | **37.03** |
| | 014 | " | " | " | " | 850 | 37.77 | |
| | 015 | " | " | " | " | 820 | 36.44 | |
| 6 | 016 | " | " | " | " | 815 | 36.22 | **36.44** |
| | 017 | " | " | " | " | 820 | 36.44 | |
| | 018 | " | " | " | " | 825 | 36.66 | |

*As Furnished by Client.
The Results relate only to the items tested.



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JNANA BHARATHI
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**BUB/CTE/2015-16/** **DATE: 11-05-2015**

## 1. TEST REPORT ON CEMENT CONCRETE CUBES:

**Sub**: Testing of Concrete Cubes for 07 days Compressive Strength.
{Project*: Remodelling of SWD BP 026 (BY03) from BB Nagara, Kodigehalli to H 200 Primary Drain near Nagashettihalli Main Road in Ward No.08 in Yelahanka Zone}

**Ref.**: Letter No. Testing/BUB/2015-16, dated 09-05-2015
Sample supplied to lab by: Sri.G.L.Yadugiri, Contractor, Bangalore.
Report required for: Assistant Executive Engineer, SWD, Yalahanka Zone,BBMP, Bangalore.

**RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE CUBE SPECIMENS**

Dimensions of Specimen : 150 X 150 X 150mm
Grade of Concrete* : $M_{35}$
Location* : Deck Slab Concrete

**TABLE 1.1:**

| Sl No | Location/ Identification* | Date of Casting* | Date of Testing | Age in Days | C/S Area in $mm^2$ | Maximum Load in K.N | Compressive Strength ($N/mm^2$) | Avg. Value |
|---|---|---|---|---|---|---|---|---|
| 1 | 001 | 02-05-15 | 09-05-15 | 07 | 22500 | 620 | 27.55 | **27.03** |
| | 002 | " | " | " | " | 590 | 26.22 | |
| | 003 | " | " | " | " | 615 | 27.33 | |
| 2 | 004 | " | " | " | " | 585 | 26.00 | **26.07** |
| | 005 | " | " | " | " | 590 | 26.22 | |
| | 006 | " | " | " | " | 585 | 26.00 | |
| 3 | 007 | " | " | " | " | 610 | 27.11 | **27.33** |
| | 008 | " | " | " | " | 620 | 27.55 | |
| | 009 | " | " | " | " | 615 | 27.33 | |
| 4 | 010 | " | " | " | " | 580 | 25.77 | **25.84** |
| | 011 | " | " | " | " | 585 | 26.00 | |
| | 012 | " | " | " | " | 580 | 25.77 | |
| 5 | 013 | " | " | " | " | 590 | 26.22 | **26.96** |
| | 014 | " | " | " | " | 610 | 27.11 | |
| | 015 | " | " | " | " | 620 | 27.55 | |
| 6 | 016 | " | " | " | " | 615 | 27.33 | **26.88** |
| | 017 | " | " | " | " | 610 | 27.11 | |
| | 018 | " | " | " | " | 590 | 26.22 | |

*As Furnished by Client.
The Results relate only to the items tested.



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JNANA BHARATHI
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**BUB/CTE/2015-16/** **DATE: 29-05-2015**

## 1. TEST REPORT ON CEMENT CONCRETE CUBES:

**Sub**: Testing of Concrete Cubes for 28 days Compressive Strength.
{Project*: Remodelling of SWD BP 026 (BY03) from BB Nagara, Kodigehalli to H 200 Primary Drain near Nagashettihalli Main Road in Ward No.08 in Yelahanka Zone}

**Ref.**: Letter No. Testing/BUB/2015-16, dated 28-05-2015

Sample supplied to lab by: Sri.G.L.Yadugiri, Contractor, Bangalore.

Report required for: Assistant Executive Engineer, SWD, Yalahanka Zone,BBMP, Bangalore.

**RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE CUBE SPECIMENS**

Dimensions of Specimen : 150 X 150 X 150mm
Grade of Concrete* : $M_{35}$
Location* : Deck Slab Concrete

**TABLE 1.1:**

| Sl No | Location/ Identification* | Date of Casting* | Date of Testing | Age in Days | C/S Area in $mm^2$ | Maximum Load in K.N | Compressive Strength ($N/mm^2$) | Avg. Value |
|---|---|---|---|---|---|---|---|---|
| 1 | 001 | 30-04-15 | 28-05-15 | 28 | 22500 | 845 | 37.55 | **37.33** |
| | 002 | " | " | " | " | 840 | 37.33 | |
| | 003 | " | " | " | " | 835 | 37.11 | |
| 2 | 004 | " | " | " | " | 875 | 38.88 | **38.66** |
| | 005 | " | " | " | " | 865 | 38.44 | |
| | 006 | " | " | " | " | 870 | 38.66 | |
| 3 | 007 | " | " | " | " | 825 | 36.66 | **36.66** |
| | 008 | " | " | " | " | 830 | 36.88 | |
| | 009 | " | " | " | " | 820 | 36.44 | |
| 4 | 010 | " | " | " | " | 855 | 38.00 | **38.22** |
| | 011 | " | " | " | " | 870 | 38.66 | |
| | 012 | " | " | " | " | 855 | 38.00 | |
| 5 | 013 | " | " | " | " | 800 | 35.55 | **35.33** |
| | 014 | " | " | " | " | 790 | 35.11 | |
| | 015 | " | " | " | " | 795 | 35.33 | |
| 6 | 016 | " | " | " | " | 850 | 37.77 | **37.55** |
| | 017 | " | " | " | " | 835 | 37.11 | |
| | 018 | " | " | " | " | 850 | 37.77 | |

*As Furnished by Client.

The Results relate only to the items tested.



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**BUB/CTE/2015-16/** **DATE: 08-05-2015**

## 1. TEST REPORT ON CEMENT CONCRETE CUBES:

**Sub**: Testing of Concrete Cubes for 07 days Compressive Strength.
{Project*: Remodelling of SWD BP 026 (BY03) from BB Nagara, Kodigehalli to H 200 Primary Drain near Nagashettihalli Main Road in Ward No.08 in Yelahanka Zone}

**Ref.**: Letter No. Testing/BUB/2015-16, dated 07-05-2015
Sample supplied to lab by: Sri.G.L.Yadugiri, Contractor, Bangalore.
Report required for: Assistant Executive Engineer, SWD, Yalahanka Zone,BBMP, Bangalore.

**RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE CUBE SPECIMENS**

Dimensions of Specimen : 150 X 150 X 150mm
Grade of Concrete* : $M_{35}$
Location* : Deck Slab Concrete

**TABLE 1.1:**

| Sl No | Location/ Identification* | Date of Casting* | Date of Testing | Age in Days | C/S Area in $mm^2$ | Maximum Load in K.N | Compressive Strength ($N/mm^2$) | Avg. Value |
|---|---|---|---|---|---|---|---|---|
| 1 | 001 | 30-04-15 | 07-05-15 | 07 | 22500 | 595 | 26.44 | **26.44** |
| | 002 | " | " | " | " | 600 | 26.66 | |
| | 003 | " | " | " | " | 590 | 26.22 | |
| 2 | 004 | " | " | " | " | 630 | 28.00 | **27.77** |
| | 005 | " | " | " | " | 620 | 27.55 | |
| | 006 | " | " | " | " | 625 | 27.77 | |
| 3 | 007 | " | " | " | " | 560 | 24.88 | **24.66** |
| | 008 | " | " | " | " | 555 | 24.66 | |
| | 009 | " | " | " | " | 550 | 24.44 | |
| 4 | 010 | " | " | " | " | 570 | 25.33 | **25.33** |
| | 011 | " | " | " | " | 565 | 25.11 | |
| | 012 | " | " | " | " | 575 | 25.55 | |
| 5 | 013 | " | " | " | " | 560 | 24.88 | **24.80** |
| | 014 | " | " | " | " | 555 | 24.66 | |
| | 015 | " | " | " | " | 560 | 24.88 | |
| 6 | 016 | " | " | " | " | 575 | 25.55 | **25.55** |
| | 017 | " | " | " | " | 570 | 25.33 | |
| | 018 | " | " | " | " | 580 | 25.77 | |

*As Furnished by Client.
The Results relate only to the items tested.



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**BUB/CTE/2015-16/** **DATE: 28-05-2015**

## 1. TEST REPORT ON CEMENT CONCRETE CUBES:

**Sub**: Testing of Concrete Cubes for 28 days Compressive Strength.
{Project*: Remodelling of SWD BP 026 (BY03) from BB Nagara, Kodigehalli to H 200 Primary Drain near Nagashettihalli Main Road in Ward No.08 in Yelahanka Zone}

**Ref.**: Letter No. Testing/BUB/2015-16, dated 27-05-2015
Sample supplied to lab by: Sri.G.L.Yadugiri, Contractor, Bangalore.
Report required for: Assistant Executive Engineer, SWD, Yalahanka Zone,BBMP, Bangalore.

**RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE CUBE SPECIMENS**

Dimensions of Specimen : 150 X 150 X 150mm
Grade of Concrete* : $M_{35}$
Location* : Deck Slab Concrete

**TABLE 1.1:**

| Sl No | Location/ Identification* | Date of Casting* | Date of Testing | Age in Days | C/S Area in $mm^2$ | Maximum Load in K.N | Compressive Strength ($N/mm^2$) | Avg. Value |
|---|---|---|---|---|---|---|---|---|
| 1 | 001 | 29-04-15 | 27-05-15 | 28 | 22500 | 825 | 36.66 | **36.66** |
| | 002 | " | " | " | " | 830 | 36.88 | |
| | 003 | " | " | " | " | 820 | 36.44 | |
| 2 | 004 | " | " | " | " | 790 | 35.11 | **35.70** |
| | 005 | " | " | " | " | 820 | 36.44 | |
| | 006 | " | " | " | " | 800 | 35.55 | |
| 3 | 007 | " | " | " | " | 835 | 37.11 | **36.66** |
| | 008 | " | " | " | " | 825 | 36.66 | |
| | 009 | " | " | " | " | 815 | 36.22 | |
| 4 | 010 | " | " | " | " | 815 | 36.22 | **36.44** |
| | 011 | " | " | " | " | 820 | 36.44 | |
| | 012 | " | " | " | " | 825 | 36.66 | |
| 5 | 013 | " | " | " | " | 830 | 36.88 | **37.10** |
| | 014 | " | " | " | " | 850 | 37.77 | |
| | 015 | " | " | " | " | 825 | 36.66 | |
| 6 | 016 | " | " | " | " | 810 | 36.00 | **36.22** |
| | 017 | " | " | " | " | 825 | 36.66 | |
| | 018 | " | " | " | " | 810 | 36.00 | |

*As Furnished by Client.
The Results relate only to the items tested.



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**BUB/CTE/2015-16/** **DATE: 07-05-2015**

## 1. TEST REPORT ON CEMENT CONCRETE CUBES:

**Sub**: Testing of Concrete Cubes for 07 days Compressive Strength.
{Project*: Remodelling of SWD BP 026 (BY03) from BB Nagara, Kodigehalli to H 200 Primary Drain near Nagashettihalli Main Road in Ward No.08 in Yelahanka Zone}

**Ref.**: Letter No. Testing/BUB/2015-16, dated 06-05-2015
Sample supplied to lab by: Sri.G.L.Yadugiri, Contractor, Bangalore.
Report required for: Assistant Executive Engineer, SWD, Yalahanka Zone,BBMP, Bangalore.

**RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE CUBE SPECIMENS**

Dimensions of Specimen : 150 X 150 X 150mm
Grade of Concrete* : $M_{35}$
Location* : Deck Slab Concrete

**TABLE 1.1:**

| Sl No | Location/ Identification* | Date of Casting* | Date of Testing | Age in Days | C/S Area in $mm^2$ | Maximum Load in K.N | Compressive Strength ($N/mm^2$) | Avg. Value |
|---|---|---|---|---|---|---|---|---|
| 1 | 001 | 29-04-15 | 06-05-15 | 07 | 22500 | 600 | 26.66 | **26.73** |
| | 002 | " | " | " | " | 595 | 26.44 | |
| | 003 | " | " | " | " | 610 | 27.11 | |
| 2 | 004 | " | " | " | " | 585 | 26.00 | **25.73** |
| | 005 | " | " | " | " | 580 | 25.77 | |
| | 006 | " | " | " | " | 595 | 25.44 | |
| 3 | 007 | " | " | " | " | 575 | 25.55 | **25.77** |
| | 008 | " | " | " | " | 585 | 26.00 | |
| | 009 | " | " | " | " | 580 | 25.77 | |
| 4 | 010 | " | " | " | " | 610 | 27.11 | **26.73** |
| | 011 | " | " | " | " | 600 | 26.66 | |
| | 012 | " | " | " | " | 595 | 26.44 | |
| 5 | 013 | " | " | " | " | 595 | 26.44 | **26.44** |
| | 014 | " | " | " | " | 600 | 26.66 | |
| | 015 | " | " | " | " | 590 | 26.22 | |
| 6 | 016 | " | " | " | " | 610 | 27.11 | **27.18** |
| | 017 | " | " | " | " | 615 | 27.33 | |
| | 018 | " | " | " | " | 610 | 27.11 | |

*As Furnished by Client.
The Results relate only to the items tested.



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**BUB/CTE/2015-16/** **DATE: 26-05-2015**

## 1. TEST REPORT ON CEMENT CONCRETE CUBES:

**Sub**: Testing of Concrete Cubes for 28 days Compressive Strength.
{Project*: Remodelling of SWD BP 026 (BY03) from BB Nagara, Kodigehalli to H 200 Primary Drain near Nagashettihalli Main Road in Ward No.08 in Yelahanka Zone}

**Ref.**: Letter No. Testing/BUB/2015-16, dated 26-05-2015
Sample supplied to lab by: Sri.G.L.Yadugiri, Contractor, Bangalore.
Report required for: Assistant Executive Engineer, SWD, Yalahanka Zone,BBMP, Bangalore.

**RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE CUBE SPECIMENS**

Dimensions of Specimen : 150 X 150 X 150mm
Grade of Concrete* : $M_{35}$
Location* : Wall Concrete

**TABLE 1.1:**

| Sl No | Location/ Identification* | Date of Casting* | Date of Testing | Age in Days | C/S Area in $mm^2$ | Maximum Load in K.N | Compressive Strength ($N/mm^2$) | Avg. Value |
|---|---|---|---|---|---|---|---|---|
| 1 | 001 | 27-04-15 | 26-05-15 | 29 | 22500 | 840 | 37.33 | **37.55** |
| | 002 | " | " | " | " | 850 | 37.77 | |
| | 003 | " | " | " | " | 845 | 37.55 | |
| 2 | 004 | " | " | " | " | 815 | 36.22 | **36.44** |
| | 005 | " | " | " | " | 820 | 36.44 | |
| | 006 | " | " | " | " | 825 | 36.66 | |
| 3 | 007 | " | " | " | " | 840 | 37.33 | **37.47** |
| | 008 | " | " | " | " | 850 | 37.77 | |
| | 009 | " | " | " | " | 840 | 37.33 | |
| 4 | 010 | " | " | " | " | 810 | 36.00 | **36.22** |
| | 011 | " | " | " | " | 825 | 36.66 | |
| | 012 | " | " | " | " | 810 | 36.00 | |
| 5 | 013 | " | " | " | " | 850 | 37.77 | **37.55** |
| | 014 | " | " | " | " | 835 | 37.11 | |
| | 015 | " | " | " | " | 850 | 37.77 | |
| 6 | 016 | " | " | " | " | 840 | 37.33 | **37.33** |
| | 017 | " | " | " | " | 850 | 37.77 | |
| | 018 | " | " | " | " | 840 | 37.33 | |

*As Furnished by Client.
The Results relate only to the items tested.



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**BUB/CTE/2015-16/** **DATE: 05-05-2015**

## 1. TEST REPORT ON CEMENT CONCRETE CUBES:

**Sub**: Testing of Concrete Cubes for 07 days Compressive Strength.
{Project*: Remodelling of SWD BP 026 (BY03) from BB Nagara, Kodigehalli to H 200 Primary Drain near Nagashettihalli Main Road in Ward No.08 in Yelahanka Zone}
**Ref.**: Letter No. Testing/BUB/2015-16, dated 04-05-2015
Sample supplied to lab by: Sri.G.L.Yadugiri, Contractor, Bangalore.
Report required for: Assistant Executive Engineer, SWD, Yelahanka Zone, BBMP, Bangalore.

**RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE CUBE SPECIMENS**

Dimensions of Specimen : 150 X 150 X 150mm
Grade of Concrete* : $M_{35}$
Location* : Wall Concrete

**TABLE 1.1:**

| Sl No | Location/ Identification* | Date of Casting* | Date of Testing | Age in Days | C/S Area in $mm^2$ | Maximum Load in K.N | Compressive Strength ($N/mm^2$) | Avg. Value |
|---|---|---|---|---|---|---|---|---|
| 1 | 001 | 27-04-15 | 04-05-15 | 07 | 22500 | 595 | 26.44 | **26.66** |
| | 002 | " | " | " | " | 585 | 26.00 | |
| | 003 | " | " | " | " | 590 | 26.22 | |
| 2 | 004 | " | " | " | " | 640 | 28.44 | **28.44** |
| | 005 | " | " | " | " | 630 | 28.00 | |
| | 006 | " | " | " | " | 650 | 28.88 | |
| 3 | 007 | " | " | " | " | 620 | 27.55 | **27.47** |
| | 008 | " | " | " | " | 610 | 27.11 | |
| | 009 | " | " | " | " | 620 | 27.55 | |
| 4 | 010 | " | " | " | " | 630 | 28.00 | **28.14** |
| | 011 | " | " | " | " | 645 | 28.66 | |
| | 012 | " | " | " | " | 625 | 25.77 | |
| 5 | 013 | " | " | " | " | 630 | 28.00 | **27.48** |
| | 014 | " | " | " | " | 620 | 27.33 | |
| | 015 | " | " | " | " | 610 | 27.11 | |
| 6 | 016 | " | " | " | " | 620 | 27.55 | **28.07** |
| | 017 | " | " | " | " | 635 | 28.22 | |
| | 018 | " | " | " | " | 640 | 28.44 | |

*As Furnished by Client.
The Results relate only to the items tested.



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JNANA BHARATHI
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BUB/CTE/2015-16/

DATE: 23-05-2015

## 1. TEST REPORT ON CEMENT CONCRETE CUBES:

**Sub**: Testing of Concrete Cubes for 28 days Compressive Strength.
{Project*: Remodelling of SWD BP 026 (BY03) from BB Nagara, Kodigehalli to H 200 Primary Drain near Nagashettihalli Main Road in Ward No.08 in Yelahanka Zone}

**Ref.**: Letter No. Testing/BUB/2015-16, dated 22-05-2015

Sample supplied to lab by: Sri.G.L.Yadugiri, Contractor, Bangalore.

Report required for: Assistant Executive Engineer, SWD, Yalahanka Zone,BBMP, Bangalore.

**RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE CUBE SPECIMENS**

Dimensions of Specimen : 150 X 150 X 150mm
Grade of Concrete* : $M_{35}$
Location* : Wall Concrete

**TABLE 1.1:**

| Sl No | Location/ Identification* | Date of Casting* | Date of Testing | Age in Days | C/S Area in $mm^2$ | Maximum Load in K.N | Compressive Strength ($N/mm^2$) | Avg. Value |
|---|---|---|---|---|---|---|---|---|
| 1 | 001 | 24-04-15 | 22-05-15 | 28 | 22500 | 840 | 37.33 | **37.55** |
| | 002 | " | " | " | " | 850 | 37.77 | |
| | 003 | " | " | " | " | 845 | 37.55 | |
| 2 | 004 | " | " | " | " | 830 | 36.88 | **36.08** |
| | 005 | " | " | " | " | 825 | 36.66 | |
| | 006 | " | " | " | " | 830 | 36.88 | |
| 3 | 007 | " | " | " | " | 840 | 37.33 | **37.33** |
| | 008 | " | " | " | " | 850 | 37.77 | |
| | 009 | " | " | " | " | 840 | 37.33 | |
| 4 | 010 | " | " | " | " | 830 | 36.88 | **36.58** |
| | 011 | " | " | " | " | 825 | 36.66 | |
| | 012 | " | " | " | " | 815 | 36.22 | |
| 5 | 013 | " | " | " | " | 830 | 36.88 | **37.03** |
| | 014 | " | " | " | " | 850 | 37.77 | |
| | 015 | " | " | " | " | 820 | 36.44 | |
| 6 | 016 | " | " | " | " | 810 | 36.00 | **36.29** |
| | 017 | " | " | " | " | 825 | 36.66 | |
| | 018 | " | " | " | " | 815 | 36.22 | |

*As Furnished by Client.

The Results relate only to the items tested.



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BUB/CTE/2015-16/ DATE: 02-05-2015

## 1. TEST REPORT ON CEMENT CONCRETE CUBES:

**Sub**: Testing of Concrete Cubes for 07 days Compressive Strength.
{Project*: Remodelling of SWD BP 026 (BY03) from BB Nagara, Kodigehalli to H 200 Primary Drain near Nagashettihalli Main Road in Ward No.08 in Yelahanka Zone}

**Ref.**: Letter No. Testing/BUB/2015-16, dated 02-05-2015

Sample supplied to lab by: Sri.G.L.Yadugiri, Contractor, Bangalore.

Report required for: Assistant Executive Engineer, SWD, Yalahanka Zone,BBMP, Bangalore.

**RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE CUBE SPECIMENS**

Dimensions of Specimen : 150 X 150 X 150mm
Grade of Concrete* : $M_{35}$
Location* : Wall Concrete

**TABLE 1.1:**

| Sl No | Location/ Identification* | Date of Casting* | Date of Testing | Age in Days | C/S Area in $mm^2$ | Maximum Load in K.N | Compressive Strength ($N/mm^2$) | Avg. Value |
|---|---|---|---|---|---|---|---|---|
| 1 | 001 | 24-04-15 | 02-05-15 | 08 | 22500 | 605 | 26.88 | **26.66** |
| | 002 | " | " | " | " | 600 | 26.66 | |
| | 003 | " | " | " | " | 595 | 26.44 | |
| 2 | 004 | " | " | " | " | 565 | 25.11 | **25.77** |
| | 005 | " | " | " | " | 595 | 26.44 | |
| | 006 | " | " | " | " | 580 | 25.77 | |
| 3 | 007 | " | " | " | " | 610 | 27.11 | **27.33** |
| | 008 | " | " | " | " | 615 | 27.33 | |
| | 009 | " | " | " | " | 620 | 27.55 | |
| 4 | 010 | " | " | " | " | 600 | 26.66 | **25.99** |
| | 011 | " | " | " | " | 585 | 26.00 | |
| | 012 | " | " | " | " | 570 | 25.33 | |
| 5 | 013 | " | " | " | " | 600 | 26.66 | **26.29** |
| | 014 | " | " | " | " | 595 | 26.44 | |
| | 015 | " | " | " | " | 580 | 25.77 | |
| 6 | 016 | " | " | " | " | 590 | 26.22 | **25.62** |
| | 017 | " | " | " | " | 575 | 25.55 | |
| | 018 | " | " | " | " | 565 | 25.11 | |

*As Furnished by Client.
The Results relate only to the items tested.



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BUB/CTE/2015-16/ DATE: 22-05-2015

## 1. TEST REPORT ON CEMENT CONCRETE CUBES:

**Sub**: Testing of Concrete Cubes for 28 days Compressive Strength.
{Project*: Remodelling of SWD BP 026 (BY03) from BB Nagara, Kodigehalli to H 200 Primary Drain near Nagashettihalli Main Road in Ward No.08 in Yelahanka Zone}

**Ref.**: Letter No. Testing/BUB/2015-16, dated 21-05-2015
Sample supplied to lab by: Sri.G.L.Yadugiri, Contractor, Bangalore.
Report required for: Assistant Executive Engineer, SWD, Yalahanka Zone,BBMP, Bangalore.

**RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE CUBE SPECIMENS**

Dimensions of Specimen : 150 X 150 X 150mm
Grade of Concrete* : $M_{35}$
Location* : Raft Concrete

**TABLE 1.1:**

| Sl No | Location/ Identification* | Date of Casting* | Date of Testing | Age in Days | C/S Area in $mm^2$ | Maximum Load in K.N | Compressive Strength ($N/mm^2$) | Avg. Value |
|---|---|---|---|---|---|---|---|---|
| 1 | 001 | 23-04-15 | 21-05-15 | 28 | 22500 | 850 | 37.77 | **37.40** |
| | 002 | " | " | " | " | 840 | 37.33 | |
| | 003 | " | " | " | " | 835 | 37.11 | |
| 2 | 004 | " | " | " | " | 835 | 37.11 | **37.18** |
| | 005 | " | " | " | " | 855 | 38.00 | |
| | 006 | " | " | " | " | 820 | 36.44 | |
| 3 | 007 | " | " | " | " | 820 | 36.44 | **35.99** |
| | 008 | " | " | " | " | 800 | 35.55 | |
| | 009 | " | " | " | " | 810 | 36.00 | |
| 4 | 010 | " | " | " | " | 850 | 37.77 | **37.03** |
| | 011 | " | " | " | " | 810 | 36.00 | |
| | 012 | " | " | " | " | 840 | 37.33 | |
| 5 | 013 | " | " | " | " | 855 | 38.00 | **37.92** |
| | 014 | " | " | " | " | 875 | 38.88 | |
| | 015 | " | " | " | " | 830 | 36.88 | |
| 6 | 016 | " | " | " | " | 810 | 36.00 | **36.22** |
| | 017 | " | " | " | " | 825 | 36.66 | |
| | 018 | " | " | " | " | 810 | 36.00 | |

*As Furnished by Client.
The Results relate only to the items tested.



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**BUB/CTE/2015-16/** **DATE: 02-05-2015**

## 1. TEST REPORT ON CEMENT CONCRETE CUBES:

**Sub**: Testing of Concrete Cubes for 07 days Compressive Strength.
{Project*: Remodelling of SWD BP 026 (BY03) from BB Nagara, Kodigehalli to H 200 Primary Drain near Nagashettihalli Main Road in Ward No.08 in Yelahanka Zone}

**Ref.**: Letter No. Testing/BUB/2015-16, dated 30-04-2015
Sample supplied to lab by: Sri.G.L.Yadugiri, Contractor, Bangalore.
Report required for: Assistant Executive Engineer, SWD, Yalahanka Zone,BBMP, Bangalore.

**RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE CUBE SPECIMENS**

Dimensions of Specimen : 150 X 150 X 150mm
Grade of Concrete* : $M_{35}$
Location* : Raft Concrete

**TABLE 1.1:**

| Sl No | Location/ Identification* | Date of Casting* | Date of Testing | Age in Days | C/S Area in $mm^2$ | Maximum Load in K.N | Compressive Strength ($N/mm^2$) | Avg. Value |
|---|---|---|---|---|---|---|---|---|
| 1 | 001 | 23-04-15 | 30-04-15 | 07 | 22500 | 610 | 27.11 | **27.18** |
| | 002 | " | " | " | " | 615 | 27.33 | |
| | 003 | " | " | " | " | 610 | 27.11 | |
| 2 | 004 | " | " | " | " | 570 | 25.33 | **25.62** |
| | 005 | " | " | " | " | 585 | 26.00 | |
| | 006 | " | " | " | " | 575 | 25.55 | |
| 3 | 007 | " | " | " | " | 570 | 25.33 | **25.70** |
| | 008 | " | " | " | " | 595 | 26.44 | |
| | 009 | " | " | " | " | 570 | 25.33 | |
| 4 | 010 | " | " | " | " | 610 | 27.11 | **26.73** |
| | 011 | " | " | " | " | 600 | 26.66 | |
| | 012 | " | " | " | " | 595 | 26.44 | |
| 5 | 013 | " | " | " | " | 565 | 25.11 | **25.40** |
| | 014 | " | " | " | " | 580 | 25.77 | |
| | 015 | " | " | " | " | 570 | 25.33 | |
| 6 | 016 | " | " | " | " | 595 | 26.44 | **26.44** |
| | 017 | " | " | " | " | 600 | 26.66 | |
| | 018 | " | " | " | " | 590 | 26.22 | |

*As Furnished by Client.
The Results relate only to the items tested.



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BUB/CTE/2015-16/

DATE: 21-05-2015

## 1. TEST REPORT ON CEMENT CONCRETE CUBES:

**Sub**: Testing of Concrete Cubes for 28 days Compressive Strength.
{Project*: Remodelling of SWD BP 026 (BY03) from BB Nagara, Kodigehalli to H 200 Primary Drain near Nagashettihalli Main Road in Ward No.08 in Yelahanka Zone}

**Ref.**: Letter No. Testing/BUB/2015-16, dated 20-05-2015

Sample supplied to lab by: Sri.G.L.Yadugiri, Contractor, Bangalore.

Report required for: Assistant Executive Engineer, SWD, Yalahanka Zone,BBMP, Bangalore.

**RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE CUBE SPECIMENS**

Dimensions of Specimen : 150 X 150 X 150mm
Grade of Concrete* : $M_{35}$
Location* : Raft Concrete

**TABLE 1.1:**

| Sl No | Location/ Identification* | Date of Casting* | Date of Testing | Age in Days | C/S Area in $mm^2$ | Maximum Load in K.N | Compressive Strength ($N/mm^2$) | Avg. Value |
|---|---|---|---|---|---|---|---|---|
| 1 | 001 | 22-04-15 | 20-05-15 | 28 | 22500 | 790 | 35.11 | **36.14** |
| | 002 | " | " | " | " | 820 | 36.44 | |
| | 003 | " | " | " | " | 830 | 36.88 | |
| 2 | 004 | " | " | " | " | 840 | 37.33 | **37.47** |
| | 005 | " | " | " | " | 850 | 37.77 | |
| | 006 | " | " | " | " | 840 | 37.33 | |
| 3 | 007 | " | " | " | " | 790 | 35.11 | **35.70** |
| | 008 | " | " | " | " | 830 | 36.88 | |
| | 009 | " | " | " | " | 790 | 35.11 | |
| 4 | 010 | " | " | " | " | 875 | 38.88 | **38.44** |
| | 011 | " | " | " | " | 865 | 38.44 | |
| | 012 | " | " | " | " | 855 | 38.00 | |
| 5 | 013 | " | " | " | " | 845 | 37.55 | **36.51** |
| | 014 | " | " | " | " | 800 | 35.55 | |
| | 015 | " | " | " | " | 820 | 36.44 | |
| 6 | 016 | " | " | " | " | 870 | 38.66 | **37.92** |
| | 017 | " | " | " | " | 850 | 37.77 | |
| | 018 | " | " | " | " | 840 | 37.33 | |

*As Furnished by Client.
The Results relate only to the items tested.



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BANGALORE - 560 056

BUB/CTE/2015-16/ DATE: 30-04-2015

## 1. TEST REPORT ON CEMENT CONCRETE CUBES:

**Sub**: Testing of Concrete Cubes for 07 days Compressive Strength.
{Project*: Remodelling of SWD BP 026 (BY03) from BB Nagara, Kodigehalli to H 200 Primary Drain near Nagashettihalli Main Road in Ward No.08 in Yelahanka Zone}

**Ref.**: Letter No. Testing/BUB/2015-16, dated 29-04-2015
Sample supplied to lab by: Sri.G.L.Yadugiri, Contractor, Bangalore.
Report required for: Assistant Executive Engineer, SWD, Yalahanka Zone,BBMP, Bangalore.

**RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE CUBE SPECIMENS**

Dimensions of Specimen : 150 X 150 X 150mm
Grade of Concrete* : $M_{35}$
Location* : Raft Concrete

**TABLE 1.1:**

| Sl No | Location/ Identification* | Date of Casting* | Date of Testing | Age in Days | C/S Area in $mm^2$ | Maximum Load in K.N | Compressive Strength ($N/mm^2$) | Avg. Value |
|---|---|---|---|---|---|---|---|---|
| 1 | 001 | 22-04-15 | 29-04-15 | 07 | 22500 | 650 | 28.88 | **27.47** |
| | 002 | " | " | " | " | 600 | 26.66 | |
| | 003 | " | " | " | " | 605 | 26.88 | |
| 2 | 004 | " | " | " | " | 650 | 28.88 | **28.66** |
| | 005 | " | " | " | " | 645 | 28.66 | |
| | 006 | " | " | " | " | 640 | 28.44 | |
| 3 | 007 | " | " | " | " | 595 | 26.44 | **26.44** |
| | 008 | " | " | " | " | 590 | 26.22 | |
| | 009 | " | " | " | " | 600 | 26.66 | |
| 4 | 010 | " | " | " | " | 625 | 27.77 | **27.55** |
| | 011 | " | " | " | " | 620 | 27.55 | |
| | 012 | " | " | " | " | 615 | 27.33 | |
| 5 | 013 | " | " | " | " | 600 | 26.66 | **26.51** |
| | 014 | " | " | " | " | 590 | 26.22 | |
| | 015 | " | " | " | " | 600 | 26.66 | |
| 6 | 016 | " | " | " | " | 630 | 28.00 | **27.77** |
| | 017 | " | " | " | " | 625 | 27.77 | |
| | 018 | " | " | " | " | 620 | 27.55 | |

*As Furnished by Client.
The Results relate only to the items tested.

30/04/2015



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BANGALORE - 560 056

**BUB/CTE/2015-16/** **DATE: 20-05-2015**

## 1. TEST REPORT ON CEMENT CONCRETE CUBES:

**Sub**: Testing of Concrete Cubes for 28ays Compressive Strength.
{Project*: Remodelling of SWD BP 026 (BY03) from BB Nagara, Kodigehalli to H 200 Primary Drain near Nagashettihalli Main Road in Ward No.08 in Yelahanka Zone}

**Ref.**: Letter No. Testing/BUB/2015-16, dated 19-05-2015
Sample supplied to lab by: Sri.G.L.Yadugiri, Contractor, Bangalore.
Report required for: Assistant Executive Engineer, SWD, Yalahanka Zone,BBMP, Bangalore.

**RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE CUBE SPECIMENS**

Dimensions of Specimen : 150 X 150 X 150mm
Grade of Concrete* : $M_{35}$
Location* : Raft Concrete

**TABLE 1.1:**

| Sl No | Location/ Identification* | Date of Casting* | Date of Testing | Age in Days | C/S Area in $mm^2$ | Maximum Load in K.N | Compressive Strength ($N/mm^2$) | Avg. Value |
|---|---|---|---|---|---|---|---|---|
| 1 | 001 | 20-04-15 | 18-05-15 | 28 | 22500 | 850 | 37.77 | **37.55** |
| | 002 | " | " | " | " | 835 | 37.11 | |
| | 003 | " | " | " | " | 850 | 37.77 | |
| 2 | 004 | " | " | " | " | 810 | 36.00 | **36.22** |
| | 005 | " | " | " | " | 825 | 36.66 | |
| | 006 | " | " | " | " | 810 | 36.00 | |
| 3 | 007 | " | " | " | " | 790 | 35.11 | **35.33** |
| | 008 | " | " | " | " | 805 | 35.77 | |
| | 009 | " | " | " | " | 790 | 35.11 | |
| 4 | 010 | " | " | " | " | 865 | 38.44 | **37.99** |
| | 011 | " | " | " | " | 855 | 38.00 | |
| | 012 | " | " | " | " | 845 | 37.55 | |
| 5 | 013 | " | " | " | " | 820 | 36.44 | **36.58** |
| | 014 | " | " | " | " | 830 | 36.88 | |
| | 015 | " | " | " | " | 820 | 36.44 | |
| 6 | 016 | " | " | " | " | 870 | 38.66 | **38.21** |
| | 017 | " | " | " | " | 860 | 38.22 | |
| | 018 | " | " | " | " | 850 | 37.77 | |

*As Furnished by Client.
The Results relate only to the items tested.

20/05/2015



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BUB/CTE/2015-16/

DATE: 28-04-2015

## 1. TEST REPORT ON CEMENT CONCRETE CUBES:

**Sub**: Testing of Concrete Cubes for 07 days Compressive Strength.
{Project*: Remodelling of SWD BP 026 (BY03) from BB Nagara, Kodigehalli to H 200 Primary Drain near Nagashettihalli Main Road in Ward No.08 in Yelahanka Zone}

**Ref.**: Letter No. Testing/BUB/2015-16, dated 27-04-2015

Sample supplied to lab by: Sri.G.L.Yadugiri, Contractor, Bangalore.

Report required for: Assistant Executive Engineer, SWD, Yalahanka Zone,BBMP, Bangalore.

**RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE CUBE SPECIMENS**

Dimensions of Specimen : 150 X 150 X 150mm
Grade of Concrete* : $M_{35}$
Location* : Raft Concrete

**TABLE 1.1:**

| Sl No | Location/ Identification* | Date of Casting* | Date of Testing | Age in Days | C/S Area in $mm^2$ | Maximum Load in K.N | Compressive Strength ($N/mm^2$) | Avg. Value |
|---|---|---|---|---|---|---|---|---|
| 1 | 001 | 20-04-15 | 27-04-15 | 07 | 22500 | 630 | 28.00 | **27.77** |
| | 002 | " | " | " | " | 625 | 27.77 | |
| | 003 | " | " | " | " | 620 | 27.55 | |
| 2 | 004 | " | " | " | " | 600 | 26.66 | **26.44** |
| | 005 | " | " | " | " | 595 | 26.44 | |
| | 006 | " | " | " | " | 590 | 26.22 | |
| 3 | 007 | " | " | " | " | 610 | 27.11 | **27.33** |
| | 008 | " | " | " | " | 620 | 27.55 | |
| | 009 | " | " | " | " | 615 | 27.33 | |
| 4 | 010 | " | " | " | " | 585 | 26.00 | **26.22** |
| | 011 | " | " | " | " | 595 | 26.44 | |
| | 012 | " | " | " | " | 590 | 26.22 | |
| 5 | 013 | " | " | " | " | 620 | 27.55 | **27.33** |
| | 014 | " | " | " | " | 615 | 27.33 | |
| | 015 | " | " | " | " | 610 | 27.11 | |
| 6 | 016 | " | " | " | " | 600 | 26.66 | **26.58** |
| | 017 | " | " | " | " | 590 | 26.44 | |
| | 018 | " | " | " | " | 600 | 26.66 | |

*As Furnished by Client.

The Results relate only to the items tested.



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JNANA BHARATHI
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**BUB/CTE/2015-16** **Date: 04-04-2015**

## 1. TEST REPORT ON CEMENT:

**Sub:** Testing of 53 Grade Cement Sample (IS 12269-1987).
{Project*: Remodelling of SWD BP 026 (BY03) from BB Nagara, Kodigehalli to H 200 Primary Drain near Nagashettihalli Main Road in Ward No.08 in Yelahanka Zone}
**Ref.**: Letter No. Testing/BUB/2015-16, dated 25-03-2015
Sample supplied to lab by: Sri.G.L.Yadugiri, Contractor, Bangalore.
Report required for: Assistant Executive Engineer, SWD, Yalahanka Zone, BBMP, Bangalore.

### PHYSICAL TESTS ON CEMENT

Brand* : Birla Super
Grade * : 53
Type * : OPC
Date : 26-03-2015 to 02-04-2015

| SL No | Name of Test | Results | Requirements as per IS 12269-1987 |
|---|---|---|---|
| | | Cement Sample | |
| 1 | Initial setting time | **132 min** | Shall not be less than 30 min |
| 2 | Final setting time | **240min** | Shall not be more than 600 min |
| 3 | Fineness (by dry sieving on IS 90 micron sieve) | **2.72%** | Not to exceed 10.0% |
| 4 | Soundness test(by Le-Chatelier's method) | **1.40 mm** | Shall not be more than 10 mm |
| 5 | Compressive strength<br>a) 3 days (average of three results)<br>b) 7 days ( average of three results) | **29.50 N/ Sq mm**<br>**41.60 N/Sq mm** | Shall not be less than 27 N/Sqmm<br>Shall not be less than 37N/Sqmm |

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**Date: 17-04-2015**

**TABLE – 2**

| SL No | Details | For 20 mm | |
|---|---|---|---|
| | | **Test Results** | Min Req. as per IS 1786-2008 |
| 01 | Observed diameter of bar | **20.0mm** | 20.0mm |
| 02 | Observed Wt/m Length **Kg/m** | **2.480** | 2.366 |
| 03 | Proof stress/Yield stress, fy , **N/mm$^2$** | **555.0** | 500.0 |
| 04 | Bend/ Re bend Test | **Ok** | --- |
| 05 | Percentage of Elongation, % | **22.00** | 12.00 |
| 06 | Ultimate Tensile Strength **N/mm$^2$** | **626.0** | 545.0 |

*As furnished by Client.
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17/04/2015

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BUB/CTE/2015-16/

Date: 17-04-2015

**1. TEST REPORT ON REINFORCEMENT STEEL:**

**Sub**: Testing of Reinforcement Steel of diameter 10, 12, 16 & 20, mm.
{Project*: Remodelling of SWD BP 026 (BY03) from BB Nagara, Kodigehalli to H 200 Primary Drain near Nagashettihalli Main Road in Ward No.08 in Yelahanka Zone}

**Ref.**: Letter No. Testing/BUB/2015-16, dated 13-04-2015

Sample supplied to lab by: Sri.G.L.Yadugiri, Contractor, Bangalore.

Report required for: Assistant Executive Engineer, SWD, Yalahanka Zone, BBMP, Bangalore.

**TABLE – 1**

| SL No | Details | For10 mm | | For 12mm | | For 16mm | |
|---|---|---|---|---|---|---|---|
| | | **Test Results** | Min Req. as per IS 1786-2008 | **Test Results** | Min Req as per IS 1786-2008 | **Test Results** | Min Req as per IS 1786-2008 |
| 01 | Observed diameter of bar | **10.0mm** | 10.0mm | **12.0mm** | 12.0mm | **16.0 mm** | 16.0 mm |
| 02 | Observed Wt/m Length **Kg/m** | **0.623** | 0.567 | **0.893** | 0.834 | **1.585** | 1.483 |
| 03 | Proof stress/Yield stress, fy , **N/mm$^2$** | **552.0** | 500.0 | **562.0** | 500.0 | **556.0** | 500.0 |
| 04 | Bend/ Re bend Test | **Ok** | --- | **Ok** | --- | **Ok** | --- |
| 05 | Percentage of Elongation, % | **21.20** | 12.00 | **19.80** | 12.00 | **20.40** | 12.00 |
| 06 | Ultimate Tensile Strength **N/mm$^2$** | **632.0** | 545.0 | **640.0** | 545.0 | **642.0** | 545.0 |

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BUB/CTE/2014-15/ Date: 30-03-2015

**1. TESTING OF COARSE AGGREGATES (20mm):**

**Sub**: Testing of Aggregates 20mm.

{Project*: Remodelling of SWD BP 026 (BY03) from BB Nagara, Kodigehalli to H 200 Primary Drain near Nagashettihalli Main Road in Ward No.08 in Yelahanka Zone}

**Ref.**: Letter No. Testing/BUB/2014-15, dated 25-03-2015

Sample supplied to lab by: Sri.G.L.Yadugiri, Contractor, Bangalore.

Report required for: Assistant Executive Engineer, SWD, Yalahanka Zone, BBMP, Bangalore.

**Table - 1.1 : SIEVE ANALYSIS :**

| IS Sieve Size, mm | *Percentage passing* 20 mm Sample | Requirements as per IS 383-1970 (Reaffirmed on 2007) % Passing | |
|---|---|---|---|
| | | Single size | Graded |
| 40 mm | 100.00 | 100.00 | 100.00 |
| 20 mm | 98.70 | 85-100 | 95 - 100 |
| 10 mm | 43.50 | 0 - 20 | 25 - 55 |
| 4.75 mm | Nil | 0 - 5 | 0 - 10 |

**TABLE 1.2 :**

| SL No | Test conducted | Sample No | Results | Requirements as per IS:383-1970 & Tests Conforms to IS 2386( Part I to IV) – 1963 ( Reaffirmed on 2007) |
|---|---|---|---|---|
| 1. | Flakiness Index | As above | 12.80 % | Not to exceed 25 % |
| 2. | Crushing value | ----,,---- | 25.30 % | Not to exceed 45 % for concrete other than for wearing surfaces and 30% for concrete for wearing surfaces |

*As Furnished by Client.

The Results relate only to the items tested.

30/03/2015

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**BUB/CTE/2014-15/**

**1. TESTING OF COARSE AGGREGATES ( 40 mm):** **Date: 30-03-2015**

**Sub**: Testing of Coarse Aggregates.
{Project*: Remodelling of SWD BP 026 (BY03) from BB Nagara, Kodigehalli to H 200 Primary Drain near Nagashettihalli Main Road in Ward No.08 in Yelahanka Zone}
**Ref.**: Letter No. Testing/BUB/2014-15, dated 25-03-2015
Sample supplied to lab by: Sri.G.L.Yadugiri, Contractor, Bangalore.
Report required for: Assistant Executive Engineer, SWD, Yalahanka Zone, BBMP, Bangalore.

**Table - 1.1 : SIEVE ANALYSIS** :

| IS Sieve Size, mm | Percentage passing | Requirements as per IS 383-1970 (Reaffirmed on 2007) % Passing | |
|---|---|---|---|
| | 40 mm Sample | *Single size* | *Graded* |
| 40mm | 97.80 | 85-100 | 95 – 100 |
| 20mm | 67.50 | 0 -20 | 30- 70 |
| 10mm | 27.70 | 0 -5 | 10- 35 |
| 4.75mm | Nil | ------ | 0 - 5 |

**TABLE 1 2 :**

| SL No | Test conducted | Sample No | Results | Requirements as per IS:383-1970 & Test Conforms to IS 2386( Part I to IV) – 1963 ( Reaffirmed on 2007) |
|---|---|---|---|---|
| 1. | Flakiness Index | As above | 13.20% | Not to exceed 25 % |
| 2. | Crushing value | ----,,---- | 24.40 % | Not to exceed 45 % for concrete other than for wearing surfaces and 30% for concrete for wearing surfaces |

*As Furnished by Client.
The Results relate only to the items tested.



30/03/2015

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**BUB/CTE/2014-15/** **Date: 30-03-2015**

**1. TESTING OF FINE AGGREGATES:**

**Sub**: Testing of Fine Aggregates.(Sand)

{Project*: Remodelling of SWD BP 026 (BY03) from BB Nagara, Kodigehalli to H 200 Primary Drain near Nagashettihalli Main Road in Ward No.08 in Yelahanka Zone}

**Ref.**: Letter No. Testing/BUB/2014-15, dated 25-03-2015

Sample supplied to lab by: Sri.G.L.Yadugiri, Contractor, Bangalore.

Report required for: Assistant Executive Engineer, SWD, Yalahanka Zone, BBMP, Bangalore.

**TABLE - 1.1 : SIEVE ANALYSIS :**

| IS Sieve Size, mm | Percentage Passing | Specification as Per IS: 383-1970(Reaffirmed 2007) Percentage Passing | | | Remarks |
|---|---|---|---|---|---|
| | | Zone-I | Zone-II | Zone -III | |
| 04.75 | 98.10 | 90-100 | 90-100 | 90-100 | The Sample Conforms to Grading **Zone-II** |
| 02.36 | 88.15 | 60-95 | 75-100 | 85-100 | |
| 01.18 | 74.00 | 30-70 | 55-90 | 75-100 | |
| 600. mic | 44.50 | 15-34 | 35-59 | 60-79 | |
| 300.mic | 18.90 | 5-20 | 8-30 | 12-40 | |
| 150.mic | 3.15 | 0-10 | 0-10 | 0-10 | |

**TABLE 1.2 ;**

| Sl No | Test Conducted | Sample | Results | Requirements as Per IS. Specification IS :383-1970 (Reaffirmed 2007) |
|---|---|---|---|---|
| 1 | Silt Content | 001 | 1.45% | Not more than 8% |
| 2. | Specific Gravity | ---- | 2.61 | ------- |

*As Furnished by Client.

The Results relate only to the items tested.



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